Ajay Prakash
$\frac{(a \cap A) = \frac{P(A \cap B)}{P(B)}}{P(B)}$
A = Ace of clubs D = Black Cord
$P(A A) = \frac{1}{1/2} = \frac{2}{52} = \frac{1}{26}, [A]$
2. 52 x 51 ~ 1
Possisilities for first cord
= 521
3. $\sum_{n=1,2,n} \sum_{n=1,3} \sum_{n=1,2} \sum_{n=1,3} \sum_{n=1,3}$
n=1,2,4 c+2c+4c+3c+6c+12c 21
$C(28) = 1$ $C = \frac{1}{28}$
4. f(x,y) = x4-8x2+ y4-18y2
$\frac{df}{dn} - \frac{4n^{3} - 16n^{2}}{4n^{3} - 16n^{2}} = 0$
4n3 = 16ne 22 = 4
n= t2
$\frac{df}{dy} = \frac{4y^3 - 36y}{4y^3 = 36y} = 0$
3 32 = 9 3
y = ± 3

 $\frac{d^2f}{dx^2} = 12n^2 - 16$ put n = 2 = 3 $\frac{d^2f}{dn^2} > 0$, local minima put n = -2 => d2f 20, local mainma d2f 12y2-36 put y = 3 = 3 d^2f > 0, local minimum dy^2 > 0, local minimum dy^2 > 0, local minimum dy^2 and the plant of the 8- BE Null space if AB=0 As = for s= [3,-5 1 2] AB = 0 Mence B= (3,-5,1,2) T Shipra

7.
$$A = \begin{bmatrix} 1 \\ 2 \end{bmatrix}$$
 $A = \begin{bmatrix} 2 \\ 4 \end{bmatrix}$

$$A = \begin{bmatrix} 3 & 4 & 5 \\ 6 & 8 & 10 \end{bmatrix}$$

$$Cohelin form of $A = \begin{bmatrix} 1 & 4/3 & 5/3 \\ 6 & 0 & 0 \end{bmatrix}$

A has 1 bindy integrated vector

30, fact = 1$$